

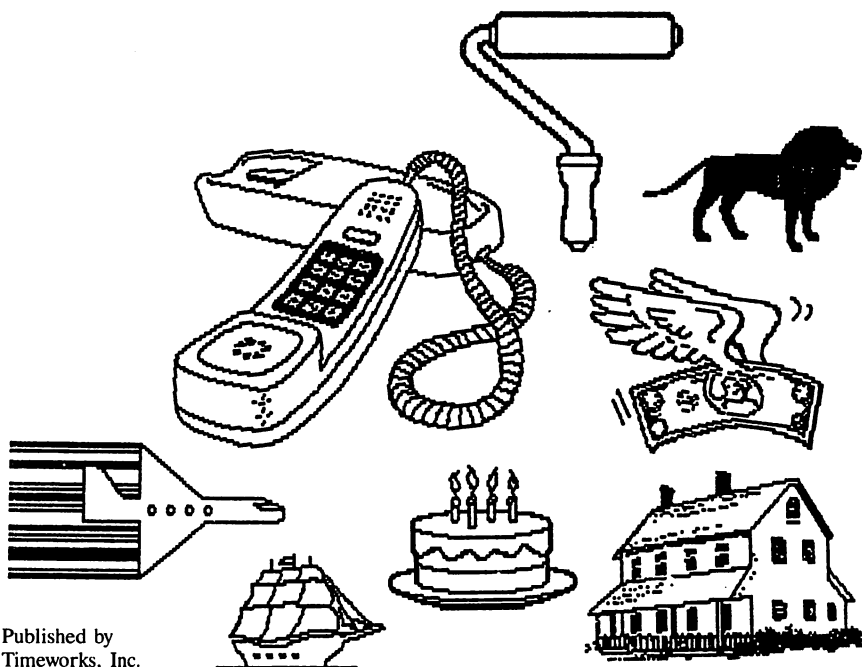
TIMEWORKS

For Commodore 64 and 128
Computers (64K, 40 Column)

User's Manual

(For WORD WRITER Version 5 and higher)

Word Writer **Art Library**



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Art Library Installation Instructions

Welcome to the Art Library for WORD WRITER! With the addition of the graphics shown in the pages that follow, you have greatly enhanced your printing capability. Now you can easily add illustrations to all your documents.

The Art Library expands your ability to add graphic elements to your documents, lending them a professional appearance. Each of the 153 graphics are illustrated here, with the graphic file name just as you'll type it. Below each graphic is its height and width in dots.

When adding illustrations to a document, you must tell WORD WRITER to leave space for the graphic, or your text will print over it. The height and width measurements need to be converted to vertical text lines and horizontal tenths of inches, like your text. We've included two charts and instructions to make the conversions easy.

Remember, you must be in font mode to print graphics in WORD WRITER. Be sure the graphic files are on your WORK disk with your fonts and printer driver. You can use WORD WRITER's INSTALL program to copy these files to your WORK disk.

For details on adding art to your documents, see the step-by-step examples with the conversion tables on the following pages, and the Graphics section of Chapter 4 of your WORD WRITER user's manual.

Graphic Height Conversion Table

		Font Sizes (in points)																							
		8	9	10	12	14	16	18	20	24	28	30	32	36	40	46	48	60	64	72	80	92	96		
Height of Graphic (in dots)	8	Number of text lines needed																							
	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	14	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	17	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	20	3	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	23	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	26	4	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1		
	29	4	4	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1		
	32	4	4	4	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1		
	35	5	4	4	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1		
	38	5	5	4	4	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1		
	41	6	5	5	4	3	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1		
	46	6	6	5	4	4	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1		
	51	7	6	6	5	4	4	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1		
	56	7	7	6	5	4	4	4	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1		
	61	8	7	7	6	5	4	4	4	3	3	3	2	2	2	2	2	2	2	1	1	1	1		
	66	9	8	7	6	5	5	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1		
	71	9	8	8	6	6	5	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1		
	79	10	9	8	7	6	5	5	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1		
	87	11	10	9	8	7	6	5	5	4	4	3	3	3	3	2	2	2	2	2	2	2	1		
95	12	11	10	8	7	6	6	5	4	4	4	3	3	3	3	2	2	2	2	2	2	1			
103	13	12	11	9	8	7	6	6	5	4	4	4	3	3	3	3	2	2	2	2	2	2			
111	14	13	12	10	8	7	7	6	5	4	4	4	4	3	3	3	3	2	2	2	2	2			
119	15	14	12	10	9	8	7	6	5	5	4	4	4	3	3	3	3	2	2	2	2	2			
129	17	15	13	11	10	9	8	7	6	5	5	5	4	4	3	3	3	3	2	2	2	2			
139	18	16	14	12	10	9	8	7	6	5	5	5	4	4	4	3	3	3	2	2	2	2			
149	19	17	15	13	11	10	9	8	7	6	5	5	5	4	4	4	3	3	3	2	2	2			
159	20	18	16	14	12	10	9	8	7	6	6	5	5	4	4	4	3	3	3	2	2	2			
179	23	20	18	15	13	12	10	9	8	7	6	6	5	5	4	4	3	3	3	3	2	2			
200	25	23	20	17	15	13	12	10	9	8	7	7	6	5	5	5	4	4	3	3	3	3			

I. Height of Graphic (in dots): The height of each graphic is measured in dots. A dot is the smallest element your printer can print. This chart converts the graphic height in dots into the number of vertical text lines required to print the graphic within your document.

II. Font Size: The font sizes are in points. Select the font size you are using through the section of your document where you want the graphic to appear.

III. Conversion: Locate the height of your graphic (in dots) along the left side of the chart. Locate the font size you are using across the top of the chart. Where the two intersect you will find the number of vertical text lines you must leave in your document to accommodate the height of the graphic.

Print Width Conversion Table

		PRINTERS		
		Epson*	GEOS**	Commodore*
		Print Width of Graphic in tenth of an inch		
Width of Graphic (in dots)	64	5	7	10
	80	6	9	12
	96	8	11	15
	112	9	13	18
	128	10	15	20
	144	12	17	23
	160	13	19	25
	176	14	21	28
	192	16	23	30
	208	17	25	33
	224	18	27	36
	240	20	29	38
	256	21	31	41
	272	22	33	43
	288	24	35	46
	304	25	37	49
	320	26	39	51
	336	28	41	54
	352	29	43	56
	368	30	45	59
	384	32	47	61
	400	33	49	64
	416	34	51	67
	432	36	53	69

I. Width of Graphic (in dots): The width of each graphic is measured in dots. This chart indicates the width of each graphic in tenths of an inch, and for each type of printer.

II. Graphic Print Width: The graphic print width is measured in tenths of an inch, just like your text margins. As shown in the chart, Commodore printers print twice as wide as Epson printers. Epson printers with GEOS drivers fall in between.

III. Conversion: Find the width of your graphic from the left side of the chart. Select the printer type you have installed. The number indicates the graphic print width in tenths of an inch.

To use the print width value, make sure your margins are set at the default position ($\sqrt{m}10,60$ - left margin set at 10 with a line length of 60).

Each graphic can be placed on a line by itself, or text can be placed either to the right or to the left of the graphic. Due to the capacity limitations of the Commodore, graphics can not be placed in the center of text or have text running around the graphic. No more than one graphic can occupy the same horizontal space on a page.

To place your graphic to the left of your text, use the following steps:

1. Set your graphic margin the same as your left text margin ($\sqrt{g},10,n,graphic.pic$).
2. Increase your left text margin by the print width of the graphic. If the graphic has a print width of 5, add 5 to your left text margin position number of 10 ($\sqrt{m},15,60$).
3. Reduce your line length by the print width of the graphic ($\sqrt{m},15,55$).

To place your graphic to the right of your text, use the following steps:

1. Reduce your line length by the print width of the graphic ($\sqrt{m},10,55$).
2. Set the graphic margin to the total of your left text margin plus your new line length ($\sqrt{g},65,n,graphic.pic$).

These steps are described in the User's Manual.



angel1.pic:
Height in dots: 75
Width in dots: 112



balloon1.pic:
Height in dots: 69
Width in dots: 272



balloon6.pic:
Height in dots: 28
Width in dots: 64



angel2.pic:
Height in dots: 71
Width in dots: 112



balloon2.pic:
Height in dots: 79
Width in dots: 272



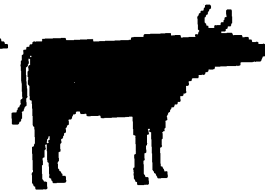
birds.pic:
Height in dots: 36
Width in dots: 96



angel3.pic:
Height in dots: 68
Width in dots: 144



balloon3.pic:
Height in dots: 52
Width in dots: 224



bull.pic:
Height in dots: 67
Width in dots: 160



aspirin.pic:
Height in dots: 72
Width in dots: 96



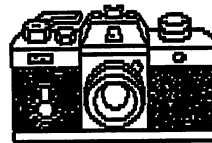
balloon4.pic:
Height in dots: 51
Width in dots: 224



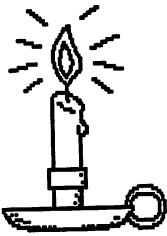
cake.pic:
Height in dots: 55
Width in dots: 128



balloon5.pic:
Height in dots: 57
Width in dots: 240



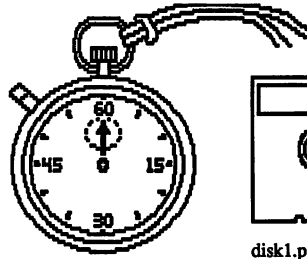
camera.pic:
Height in dots: 52
Width in dots: 144



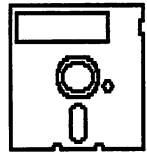
candle.pic:
Height in dots: 85
Width in dots: 112



cat.pic:
Height in dots: 90
Width in dots: 112



clock.pic:
Height in dots: 94
Width in dots: 208



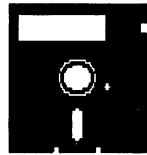
disk1.pic:
Height in dots: 56
Width in dots: 96



car1.pic:
Height in dots: 22
Width in dots: 96



clover.pic:
Height in dots: 62
Width in dots: 112



disk2.pic:
Height in dots: 56
Width in dots: 96



car2.pic:
Height in dots: 34
Width in dots: 240



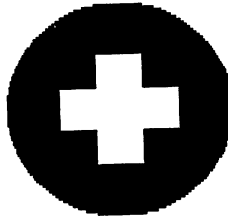
coins.pic:
Height in dots: 61
Width in dots: 64



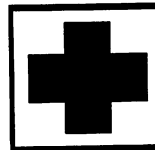
disk3.pic:
Height in dots: 45
Width in dots: 80



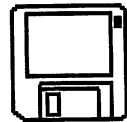
car3.pic:
Height in dots: 27
Width in dots: 128



cross1.pic:
Height in dots: 80
Width in dots: 160



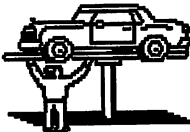
cross3.pic:
Height in dots: 56
Width in dots: 112



disk4.pic:
Height in dots: 45
Width in dots: 80



car4.pic:
Height in dots: 36
Width in dots: 144



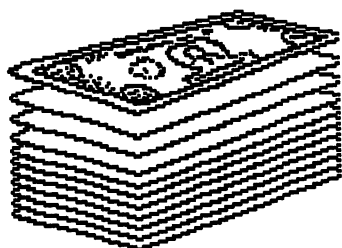
car5.pic:
Height in dots: 49
Width in dots: 128



cross2.pic:
Height in dots: 50
Width in dots: 96



dog.pic:
Height in dots: 74
Width in dots: 144



dollars.pic:
Height in dots: 91
Width in dots: 224



fish.pic:
Height in dots: 53
Width in dots: 144



flag11.pic:
Height in dots: 46
Width in dots: 128



flag1.pic:
Height in dots: 45
Width in dots: 128



flag6.pic:
Height in dots: 45
Width in dots: 128



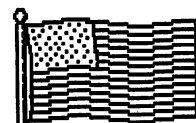
flag12.pic:
Height in dots: 45
Width in dots: 128



dolsign.pic:
Height in dots: 84
Width in dots: 112



flag2.pic:
Height in dots: 45
Width in dots: 128



flag7.pic:
Height in dots: 46
Width in dots: 128

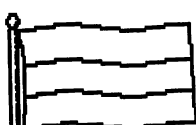


SCOTLAND

flag13.pic:
Height in dots: 53
Width in dots: 128



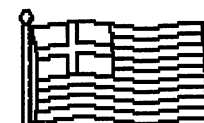
eye.pic:
Height in dots: 80
Width in dots: 160



flag3.pic:
Height in dots: 45
Width in dots: 128



flag8.pic:
Height in dots: 45
Width in dots: 128

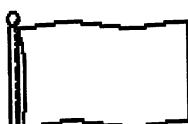


GREECE

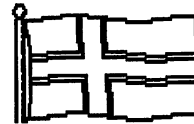
flag14.pic:
Height in dots: 52
Width in dots: 128



fbhelmet.pic:
Height in dots: 64
Width in dots: 128



flag4.pic:
Height in dots: 45
Width in dots: 128

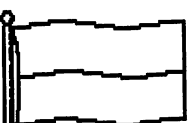


flag9.pic:
Height in dots: 45
Width in dots: 128



CUBA

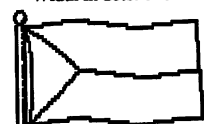
flag15.pic:
Height in dots: 53
Width in dots: 128



flag5.pic:
Height in dots: 46
Width in dots: 128



flag10.pic:
Height in dots: 45
Width in dots: 128



CZECHOSLOVAKIA

flag16.pic:
Height in dots: 54
Width in dots: 128



S. KOREA

flag17.pic:
Height in dots: 53
Width in dots: 128



ISRAEL

flag18.pic:
Height in dots: 53
Width in dots: 128



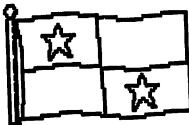
YUGOSLAVIA

flag19.pic:
Height in dots: 54
Width in dots: 128



CHILE

flag20.pic:
Height in dots: 53
Width in dots: 128



PANAMA

flag21.pic:
Height in dots: 53
Width in dots: 128



gascan.pic:
Height in dots: 38
Width in dots: 96



flash.pic:
Height in dots: 57
Width in dots: 272



gaspump.pic:
Height in dots: 56
Width in dots: 96

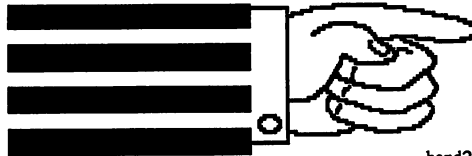


golf.pic:
Height in dots: 123
Width in dots: 96

**friendly
reminder**



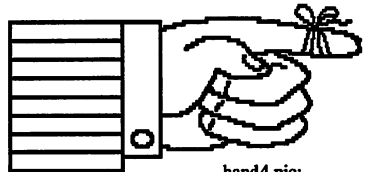
hand1.pic
Height in dots: 65
Width in dots: 352



hand2.pic:
Height in dots: 57
Width in dots: 304



hand3.pic:
Height in dots: 53
Width in dots: 160



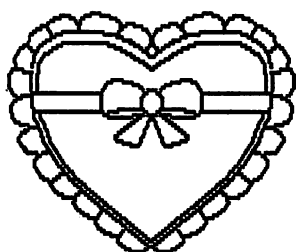
hand4.pic:
Height in dots: 63
Width in dots: 240



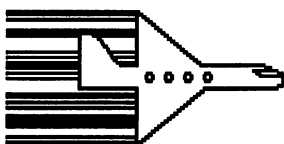
hand5.pic:
Height in dots: 44
Width in dots: 192



hand6.pic:
Height in dots: 51
Width in dots: 192



heart.pic:
Height in dots: 92
Width in dots: 192



jet.pic:
Height in dots: 51
Width in dots: 192



hill.pic:
Height in dots: 35
Width in dots: 160



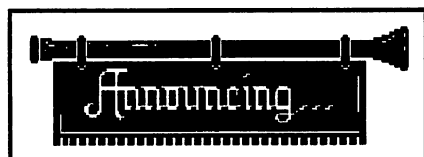
key.pic:
Height in dots: 119
Width in dots: 112



joy.pic:
Height in dots: 78
Width in dots: 288



lion.pic:
Height in dots: 47
Width in dots: 144



horn.pic:
Height in dots: 58
Width in dots: 272



lightbulb.pic:
Height in dots: 53
Width in dots: 272



horse.pic:
Height in dots: 54
Width in dots: 128



house2.pic:
Height in dots: 105
Width in dots: 416



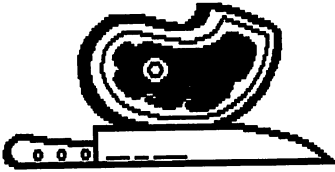
house.pic:
Height in dots: 43
Width in dots: 128



house3.pic:
Height in dots: 71
Width in dots: 176



infoman.pic:
Height in dots: 66
Width in dots: 160



meat.pic:
Height in dots: 62
Width in dots: 224



memo1.pic:
Height in dots: 60
Width in dots: 240



memo2.pic:
Height in dots: 60
Width in dots: 240



music1.pic:
Height in dots: 62
Width in dots: 64



mona.pic:
Height in dots: 59
Width in dots: 144



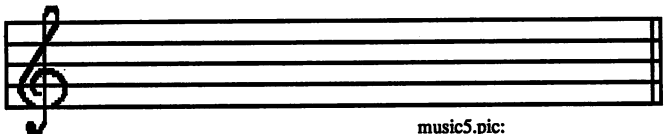
music2.pic:
Height in dots: 24
Width in dots: 32



music3.pic:
Height in dots: 38
Width in dots: 64



music4.pic:
Height in dots: 48
Width in dots: 96



music5.pic:
Height in dots: 48
Width in dots: 432



needle.pic:
Height in dots: 21
Width in dots: 256



moneybag.pic:
Height in dots: 100
Width in dots: 160



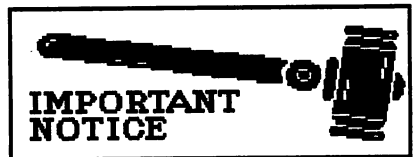
nosign.pic:
Height in dots: 41
Width in dots: 80



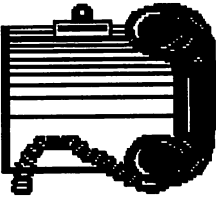
new.pic:
Height in dots: 65
Width in dots: 240



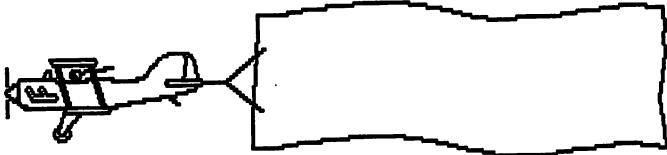
notice1.pic:
Height in dots: 57
Width in dots: 256



notice2.pic:
Height in dots: 58
Width dots: 272



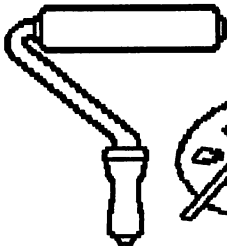
notice3.pic:
Height in dots: 72
Width in dots: 160



plane.pic:
Height in dots: 59
Width in dots: 432



piano.pic:
Height in dots: 50
Width in dots: 176



paint.pic:
Height in dots: 91
Width in dots: 160



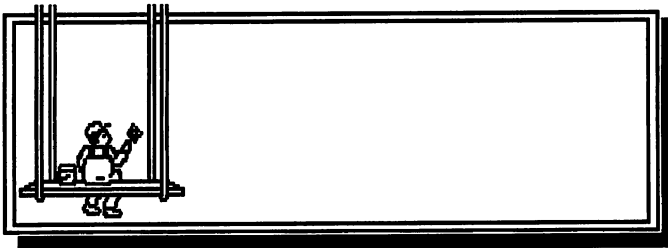
paint2.pic:
Height in dots: 70
Width in dots: 144



baseball.pic:
Height in dots: 107
Width in dots: 160



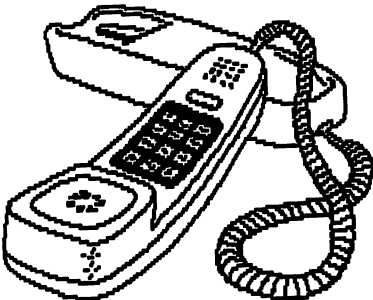
alarm.pic:
Height in dots: 60
Width in dots: 176



billboard.pic:
Height in dots: 92
Width in dots: 432



pills.pic:
Height in dots: 80
Width in dots: 96



phone.pic:
Height in dots: 114
Width in dots: 240



pigbank.pic:
Height in dots: 75
Width in dots: 224



plant1.pic:
Height in dots: 61
Width in dots: 80



leprechaun.pic:
Height in dots: 136
Width in dots: 176



pig.pic:
Height in dots: 37
Width in dots: 112



plant2.pic:
Height in dots: 94
Width in dots: 128



pumpkin.pic:
Height in dots: 59
Width in dots: 128



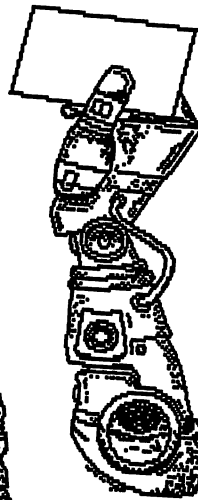
plant3.pic:
Height in dots: 47
Width in dots: 112



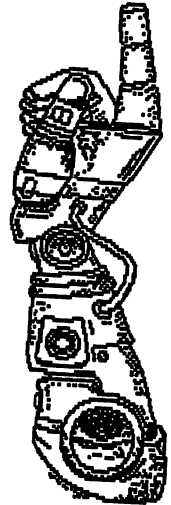
rabbit.pic:
Height in dots: 89
Width in dots: 176



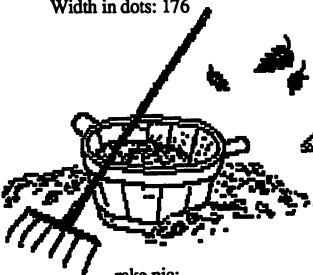
robot1.pic:
Height in dots: 187
Width in dots: 112



robot2.pic:
Height in dots: 183
Width in dots: 144



robot3.pic:
Height in dots: 190
Width in dots: 128



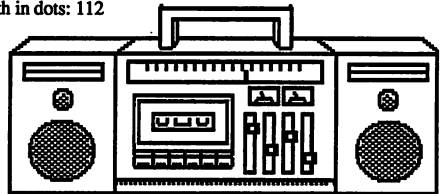
rake.pic:
Height in dots: 102
Width in dots: 208



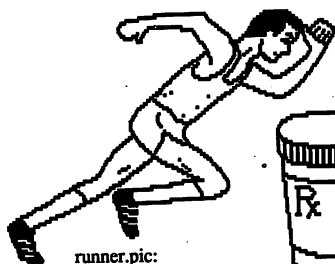
rooster.pic:
Height in dots: 85
Width in dots: 128



rose.pic:
Height in dots: 75
Width in dots: 96



radio.pic:
Height in dots: 72
Width in dots: 288



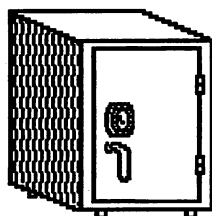
runner.pic:
Height in dots: 95
Width in dots: 224



rx.pic:
Height in dots: 61
Width in dots: 80



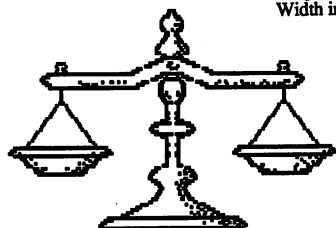
rush.pic:
Height in dots: 53
Width in dots: 272



safe.pic:
Height in dots: 79
Width in dots: 144



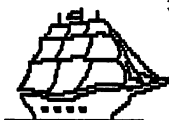
sales.pic:
Height in dots: 56
Width in dots: 112



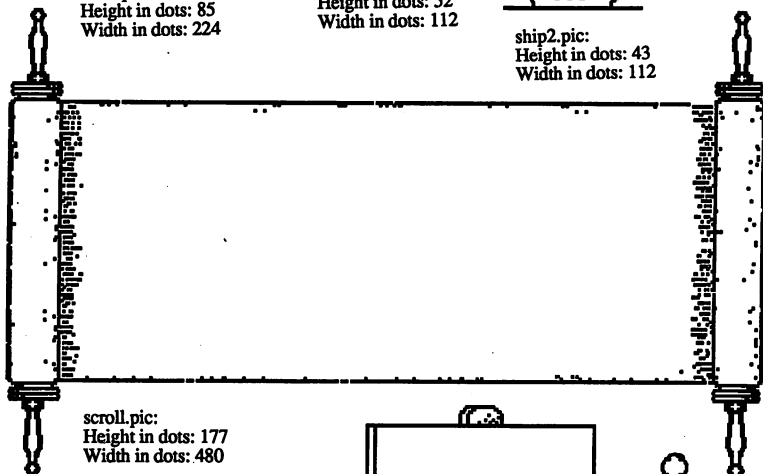
scale.pic:
Height in dots: 85
Width in dots: 224



ship1.pic:
Height in dots: 52
Width in dots: 112



ship2.pic:
Height in dots: 43
Width in dots: 112



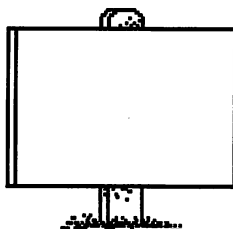
scroll.pic:
Height in dots: 177
Width in dots: 480



sign1.pic:
Height in dots: 45
Width in dots: 80



sign2.pic:
Height in dots: 47
Width in dots: 96



sign.pic:
Height in dots: 86
Width in dots: 160



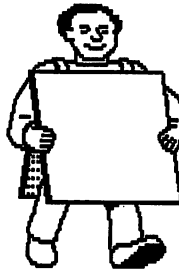
ship3.pic:
Height in dots: 43
Width in dots: 128



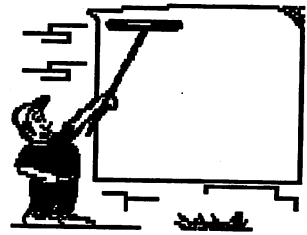
sign3.pic:
Height in dots: 58
Width in dots: 80



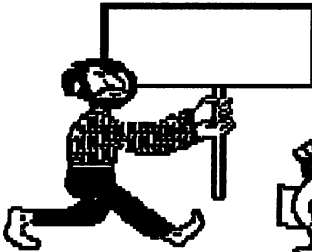
sign4.pic:
Height in dots: 69
Width in dots: 64



signman.pic:
Height in dots: 99
Width in dots: 128



signman2.pic:
Height in dots: 85
Width in dots: 192



signman4.pic:
Height in dots: 93
Width in dots: 208



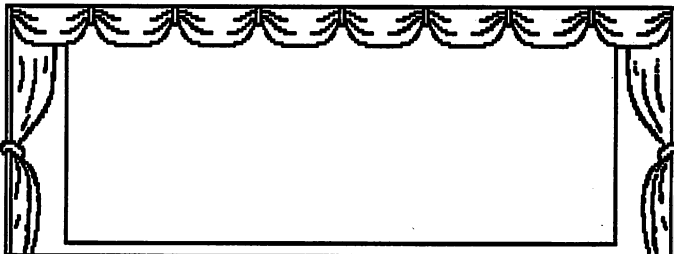
signman3.pic:
Height in dots: 70
Width in dots: 160



sunset.pic:
Height in dots: 51
Width in dots: 128



skyline.pic:
Height in dots: 142
Width in dots: 400



stage.pic:
Height in dots: 96
Width in dots: 432



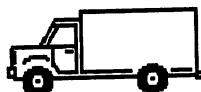
thespian.pic:
Height in dots: 44
Width in dots: 224



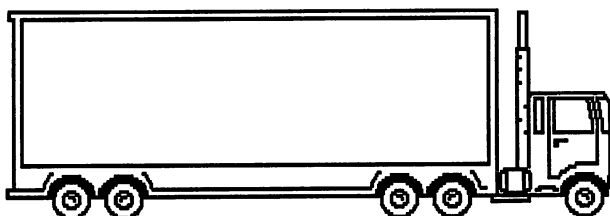
tooth.pic:
Height in dots: 80
Width in dots: 144

TRICK
OR
TREAT

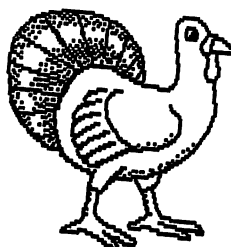
trick.pic:
Height in dots: 80
Width in dots: 160



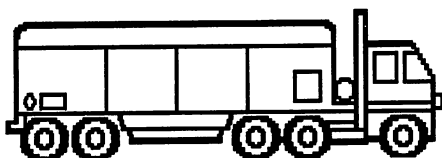
truck.pic:
Height in dots: 32
Width in dots: 128



truck2.pic:
Height in dots: 80
Width in dots: 400



turkey.pic:
Height in dots: 91
Width in dots: 160



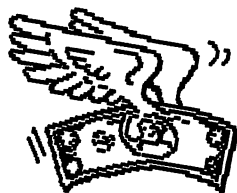
truck3.pic:
Height in dots: 56
Width in dots: 288

MERRY
CHRISTMAS

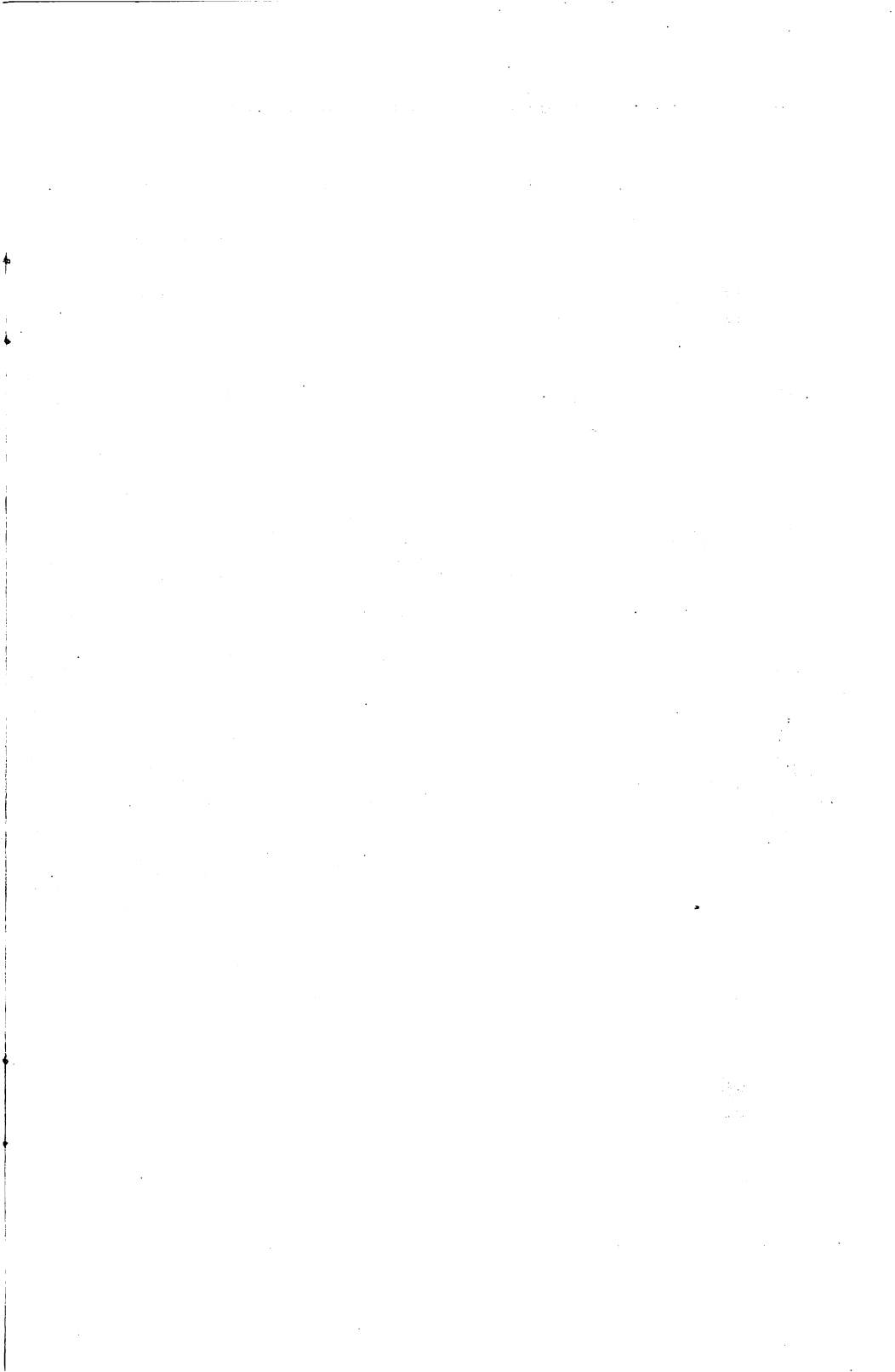
xmas.pic:
Height in dots: 37
Width in dots: 160



veg.pic:
Height in dots: 130
Width in dots: 160



wings.pic:
Height in dots: 69
Width in dots: 160



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